| <br> | Claims |  |
|------|--------|--|
|      |        |  |

| App | lica | tion/Contro | l No. |
|-----|------|-------------|-------|

10/762,497

Examiner

Sandra L. Brase

Applicant(s)/Patent under Reexamination

MIYAKAWA ET AL.

Art Unit

2852

Rejected Allowed

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

**Appeal** 0 Objected

|  |                  | ш        |              |          |          |              | i            |          |              | <u> </u> |
|--|------------------|----------|--------------|----------|----------|--------------|--------------|----------|--------------|----------|
| Cla  | im               | Date     |              |          |          |              |              |          |              |          |
| <u> </u>   |                  | $\vdash$ | Г            |          |          |              | ř            |          |              | $\Box$   |
| Final  | Original         | 12/5/05  |              |          |          |              |              |          |              |          |
|  | 1                | V        | $\vdash$     |          |          |              |              |          |              | H        |
|  | 2                | 1        |              |          |          |              |              |          |              |          |
|  | 3                |          |              |          |          |              |              |          |              | H        |
|  | 1<br>2<br>3<br>4 | ./       | $\vdash$     |          |          |              |              |          |              | $\Box$   |
|  | 5                | 7        | $\vdash$     | H        |          | $\vdash$     |              |          | $\vdash$     | Н        |
|  | 6                | <u> </u> | <b>-</b>     |          | -        | $\vdash$     | -            |          |              | $\vdash$ |
|  | 7                | 1        | ┝            |          | -        | -            | H            |          |              | H        |
|  | 8                |          | <u> </u>     |          | _        | -            | $\vdash$     |          | Н            |          |
|  | 9                | V        | ┝            | -        | -        | ├-           | -            | _        |              | $\vdash$ |
|  |                  | V        | $\vdash$     |          | _        | $\vdash$     |              | -        |              | $\vdash$ |
|  | 10               | 1        | ⊢            |          | -        | -            | -            |          |              | Н        |
| ļ  | 11               | 1        | <u> </u>     | H        | $\vdash$ | $\vdash$     |              |          | $\vdash$     | Н        |
|  | 12               | 1        | ļ.,          | $\vdash$ | <u> </u> | $\vdash$     | <u> </u>     |          | $\vdash$     | Н        |
|  | 13<br>14<br>15   | ✓        | <u> </u>     | <u> </u> | <u> </u> | $\vdash$     | $\vdash$     | $\vdash$ | <u> </u>     | Ш        |
|  | 14               | 1/       | <u> </u>     | $\vdash$ | <u> </u> | $\vdash$     | $\vdash$     |          | $\vdash$     |          |
| L  | 15               | V        | <u> </u>     | $\vdash$ | _        | $\vdash$     |              | _        | <u> </u>     | Щ        |
|  | 16<br>17         | V        | <u> </u>     |          | _        |              |              |          | _            | Щ        |
|  | 17               | 4        | <u> </u>     |          |          |              |              |          |              | Щ        |
|  | 18               | 1        | <u> </u>     |          |          |              |              |          |              |          |
|  | 19               | V        |              |          |          |              |              |          |              |          |
|  | 20               | レ        |              |          |          |              |              |          |              |          |
|  | 21<br>22         | 1        |              |          |          |              |              |          |              |          |
|  | 22               | V        |              |          |          |              |              |          |              |          |
|  | 23               |          |              |          |          |              |              | -        |              |          |
|  | 24               |          |              |          |          |              |              |          |              |          |
|  | 25               | <u> </u> | $\vdash$     |          |          |              |              |          |              |          |
|  | 26               |          |              |          |          |              |              |          |              |          |
|  | 27               |          |              |          |          |              |              |          |              |          |
|  | 28               |          |              |          |          |              |              |          |              |          |
|  | 29               |          |              |          |          |              |              |          |              | П        |
|  | 30               |          |              |          | _        |              |              |          |              |          |
|  | 31               |          |              | _        |          |              |              |          |              |          |
|  | 32               |          |              |          |          |              |              |          |              | П        |
|  | 32<br>33         | $\vdash$ | Н            | Т        |          | $\vdash$     | $\vdash$     | М        |              | $\vdash$ |
|  | 34               |          |              | -        |          | $\vdash$     |              |          |              | $\vdash$ |
|  | 35               | Т        | $\vdash$     |          | $\vdash$ |              |              |          | Н            | Н        |
| -  | 36               | $\vdash$ | $\vdash$     |          | -        | $\vdash$     | $\vdash$     |          |              | Н        |
| <del>                                     </del> | 37               | $\vdash$ | $\vdash$     | $\vdash$ | -        |              | -            |          | H            | H        |
|  | 38               |          | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$     |          | -            | $\vdash$ |
|  | 39               | -        | -            | -        | -        | $\vdash$     | $\vdash$     | Н        |              | $\dashv$ |
|  | 40               | $\vdash$ | -            | -        |          | $\vdash$     | H            |          |              | $\dashv$ |
| _  | 41               | -        | $\vdash$     | H        | -        | <del> </del> | -            | -        | <u> </u>     | $\vdash$ |
|  | 42               | $\vdash$ | $\vdash$     | $\vdash$ |          | <del> </del> | <del> </del> | <u> </u> | <del> </del> | $\vdash$ |
|  | 43               | $\vdash$ | -            | -        | -        | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$ |
|  |                  | -        | <del> </del> | -        |          | Ŀ            | <u> </u>     | <u> </u> | <u> </u>     | Н        |
|  | 44               | $\vdash$ | $\vdash$     | -        | <u> </u> | H            | $\vdash$     | <u> </u> | <u> </u>     | Н        |
|  | 45               | <u> </u> | -            | H        |          | -            |              |          |              |          |
|  | 46               | -        | <u> </u>     | <b>-</b> | _        | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$     | Ш        |
|  | 47               | <u> </u> | <u> </u>     | <u> </u> |          |              | $\vdash$     | L.,      | L.           | Ш        |
| L  | 48               | Щ        | <u> </u>     | <u> </u> |          |              | ļ            | L        | ļ            | Щ        |
|  | 49               | <u>_</u> | <u>_</u>     | <u>L</u> |          | <u> </u>     |              | <u> </u> | Щ.           | Ш        |
|  | 50               |          |              |          |          |              |              | •        |              | 1 ]      |

|       |          |          |   |                                |          | <b>7</b> -4 |          |    |              |                    | 1 1 |       | .!       | Г            |          |      | 201  |              |    |        | _        |
|-------|----------|----------|---|--------------------------------|----------|-------------|----------|----|--------------|--------------------|-----|-------|----------|--------------|----------|------|------|--------------|----|--------|----------|
| Cla   | im .     |          |   | _                              | _        | Date        | <u> </u> | Γ. | T            | г                  |     | Cla   | um       | <del> </del> | П        |      | Date | <del>,</del> |    |        | $\dashv$ |
| Final | Original | 12/5/05  |   |                                |          |             |          |    |              |                    |     | Final | Original |              |          |      |      |              |    |        |          |
|       | 1        | 1/       |   |                                | Т        |             |          |    |              |                    |     |       | 51       |              |          |      |      |              |    |        |          |
|       | 2        | U        |   |                                | $\vdash$ |             | П        |    |              |                    |     |       | 52       |              |          |      |      |              |    |        | П        |
|       | 3        | 5        |   |                                |          |             |          |    |              |                    | 1   |       | 53       |              | T        | _    |      |              |    |        | П        |
|       | 4        | 1        |   |                                | Г        |             |          |    |              |                    | 1 1 |       | 54       |              |          |      |      |              |    |        | П        |
|       | 5        | Ž        |   |                                |          |             |          |    | Г            |                    | 1 1 |       | 55       |              |          |      |      |              |    |        | П        |
|       | 6        | V        |   |                                |          | _           |          |    |              |                    | 1 1 |       | 56       |              |          |      |      |              |    | $\Box$ | $\Box$   |
|       | 7        | 1        |   |                                | $\vdash$ | <b></b>     |          |    | Г            |                    | 1 1 |       | 57       |              |          |      |      |              |    |        | П        |
|       | 8        | V        |   |                                |          |             |          |    |              |                    | 1 1 |       | 58       |              |          |      |      |              |    |        | П        |
|       | 9        | V        |   |                                | Π        | Г           |          |    |              |                    | 1 1 |       | 59       |              |          |      |      |              |    |        | $\Box$   |
|       | 10       | 1        |   |                                | Г        |             |          |    |              |                    | 1 1 |       | 60       |              |          |      |      |              |    |        |          |
|       | 11       | ./       |   |                                |          |             |          |    |              |                    |     |       | 61       |              |          |      |      |              |    |        |          |
|       | 12       | V        |   |                                |          |             |          |    | Π            |                    |     |       | 62       |              |          |      |      |              |    |        |          |
|       | 13       |          |   |                                | П        |             | Г        |    |              |                    |     |       | 63       |              |          |      |      |              |    |        |          |
|       | 14       | 1/       |   |                                | T        |             |          |    |              |                    |     |       | 64       |              |          |      |      |              |    |        |          |
|       | 15       | V        |   |                                | П        |             |          |    | Γ            |                    |     |       | 65       |              |          |      |      |              |    |        |          |
|       | 16       | V        |   |                                |          |             |          |    |              |                    |     |       | 66       |              |          |      |      |              |    |        |          |
|       | 17       | 1        |   |                                |          |             |          |    |              |                    |     |       | 67       |              |          |      |      |              |    |        |          |
|       | 18       | J        |   |                                |          |             |          |    |              |                    |     |       | 68       |              |          |      |      |              |    |        |          |
|       | 19       | V        |   |                                |          |             |          |    |              |                    |     |       | 69       |              |          |      |      |              |    |        |          |
|       | 20       | レ        |   |                                |          |             |          |    |              |                    |     |       | 70       |              |          |      |      |              |    |        |          |
|       |          | <b>7</b> |   |                                |          |             | Г        |    |              |                    | 1   |       | 71       |              |          |      |      |              |    |        |          |
|       | 22       | V        |   |                                |          |             |          |    |              |                    |     |       | 72       |              |          |      |      |              |    |        |          |
|       | 23       |          |   |                                |          | Γ           |          |    |              |                    |     |       | 73       |              |          |      |      |              |    |        |          |
|       | 24       |          |   |                                |          |             |          |    |              |                    | ] [ |       | 74       |              |          |      |      |              |    |        |          |
|       | 25       | <u> </u> |   |                                |          |             |          |    |              |                    |     |       | 75       |              |          |      |      |              |    |        |          |
|       | 26       |          |   |                                |          |             |          |    |              |                    |     |       | 76       |              |          |      |      |              |    |        |          |
|       | 27       |          |   |                                |          |             | Π        |    |              |                    |     |       | 77       |              |          |      |      |              |    |        |          |
|       | 28       |          |   |                                |          |             |          |    |              |                    |     |       | 78       |              |          |      |      |              |    |        |          |
|       | 29       |          |   |                                |          |             |          |    |              |                    |     |       | 79       |              |          |      |      |              |    |        |          |
|       | 30       |          |   |                                |          |             |          |    |              |                    |     |       | 80       |              |          |      |      |              |    |        |          |
|       | 31       |          |   |                                |          |             |          |    |              |                    |     |       | 81       |              |          |      |      |              |    |        |          |
|       | 32       |          |   |                                |          |             |          |    |              |                    |     |       | 82       |              |          |      |      |              |    |        |          |
|       | 33       |          |   |                                |          |             |          |    |              |                    |     |       | 83       |              |          | <br> |      |              |    |        |          |
|       | 34       |          |   |                                |          |             |          |    |              |                    |     |       | 84       |              |          |      |      |              |    |        |          |
|       | 35       |          |   |                                | <u> </u> |             |          |    |              |                    |     |       | 85       |              |          |      |      |              |    |        | Ш        |
|       | 36       |          |   |                                | <u> </u> |             |          |    |              |                    |     |       | 86       |              |          |      |      |              |    |        | Ш        |
|       | 37       |          |   |                                |          |             |          |    |              |                    | [   |       | 87       | Ш            | [        |      |      |              |    |        | Ш        |
|       | 38       |          |   |                                | _        |             |          | L  | L            |                    |     |       | 88       |              |          |      |      |              |    | Ш      | Ш        |
|       | 39       |          |   |                                |          |             | _        |    |              |                    | Į Į |       | 89       | Ш            |          |      |      |              |    | Ш      |          |
|       | 40       |          |   | $oxedsymbol{oxed}$             |          |             |          |    |              |                    | Į Į |       | 90       | Ш            | [        |      |      |              | L  | Ш      |          |
|       | 41       |          |   |                                |          |             | Ĺ        |    |              |                    |     |       | 91       | Ш            | $\sqcup$ |      | _    |              |    |        |          |
|       | 42       |          |   |                                |          |             |          | L  | $\Box$       | Ĺ                  |     |       | 92       | Ш            | [        |      |      |              |    | Ш      |          |
|       | 43       |          | _ | <u> </u>                       |          |             |          |    | $oxed{oxed}$ |                    |     |       | 93       | Ш            |          |      |      |              | L_ |        |          |
|       | 44       |          |   |                                |          |             |          |    |              | $oxedsymbol{oxed}$ |     |       | 94       | Ш            |          |      |      | L_           | L  |        |          |
|       | 45       |          |   |                                |          | 匚           |          | L  |              | L                  |     |       | 95       | Ш            |          |      |      |              |    |        |          |
|       | 46       |          |   |                                |          |             |          |    |              |                    |     |       | 96       | Ш            |          |      |      | _            |    |        |          |
|       | 47       |          | Ĺ |                                |          | 匚           |          |    | 匚            |                    |     |       | 97       | Ш            | [        |      |      |              |    |        |          |
|       | 48       |          |   |                                |          |             |          |    | L            |                    |     |       | 98       | Ш            |          |      |      | _            |    |        |          |
|       | 49       |          |   | $oxedsymbol{oxedsymbol{oxed}}$ |          |             |          |    |              |                    | ]   |       | 99       | Ш            |          |      |      | L            |    |        |          |
|       | 50       |          |   | L                              |          |             |          |    |              |                    |     |       | 100      | Ш            |          |      | l    | L            |    |        |          |
|       |          |          |   |                                |          |             |          | _  |              |                    |     | _     |          |              |          |      |      |              |    |        |          |

| Claim |                   | Date         |          |              |   |              |              |   |          |                 |
|-------|-------------------|--------------|----------|--------------|---|--------------|--------------|---|----------|-----------------|
| Final | Original          |              |          |              |   |              |              |   |          |                 |
|       | 101               | _            |          |              |   |              |              |   |          | _               |
|       | 102               |              |          |              |   |              |              |   | -        |                 |
|       | 102<br>103        |              |          |              |   |              |              | _ | _        | $\overline{}$   |
|       | 104               |              |          |              |   |              |              |   |          |                 |
|       | 105               |              |          |              |   |              |              |   |          |                 |
|       | 105<br>106        |              |          |              |   |              |              |   |          |                 |
|       | 107               |              |          |              |   |              |              |   |          |                 |
|       | 108               |              |          |              |   |              |              |   |          |                 |
|       | 109               |              |          |              |   |              |              |   |          |                 |
|       | 110               |              |          |              |   |              |              |   |          |                 |
|       | 111               |              |          |              |   |              |              |   |          |                 |
|       | 112               |              | Ш        |              |   |              |              | Ш |          | Щ               |
|       | 113<br>114        | <u> </u>     |          | _            |   | <u> </u>     | <u> </u>     | _ |          | Щ               |
|       | 114               | _            |          | <u> </u>     |   | ļ            |              |   |          | Щ               |
|       | 115               | <u> </u>     |          | $\vdash$     | ļ | ļ            | -            |   |          | Щ               |
|       | 116<br>117        | <u> </u>     |          | <u> </u>     | _ | $\vdash$     | $\vdash$     |   |          | Щ               |
|       | 117               | <u> </u>     | H        | $\vdash$     |   | $\vdash$     | $\vdash$     |   | _        | $\vdash$        |
|       | 118               | -            |          | $\vdash$     |   |              | H            |   | -        | $\vdash$        |
|       | 120               | _            | _        | _            | - |              |              |   |          |                 |
|       | 121               |              |          | _            | _ | -            |              |   |          | Н               |
|       | 122               | -            |          |              |   |              |              |   |          | $\vdash$        |
|       | 121<br>122<br>123 | $\vdash$     |          |              |   | $\vdash$     |              |   |          | $\vdash$        |
|       | 124               | $\vdash$     |          |              |   |              |              |   |          | $\vdash$        |
|       | 125               | Т            |          |              |   |              |              |   |          | П               |
|       | 124<br>125<br>126 |              |          |              |   |              |              |   |          |                 |
|       | 127<br>128        |              |          |              |   |              |              |   |          |                 |
|       | 128               |              |          |              |   |              |              |   |          |                 |
|       | 129               |              |          |              |   |              |              |   |          |                 |
|       | 130<br>131        |              |          |              |   |              |              |   |          | Щ               |
|       | 131               |              |          |              |   |              |              |   |          |                 |
|       | 132               |              |          | _            |   |              |              |   |          | Ш               |
|       | 133               |              | L.,      | <u> </u>     | L | <u> </u>     |              |   |          | Щ               |
|       | 134               |              |          | <u> </u>     |   | $\vdash$     |              |   |          | Ш               |
|       | 135<br>136        |              |          | <u> </u>     | ļ | Ш            | <u> </u>     |   |          | Щ               |
|       | 136               |              |          | <u> </u>     | _ | $\vdash$     |              |   |          | $\vdash \dashv$ |
|       | 137<br>138        |              |          | -            | _ |              | -            |   |          | $\vdash$        |
|       | 139               |              | $\vdash$ | -            |   | $\vdash$     |              | - | -        | Н               |
|       | 140               |              |          | <del> </del> | - | <del> </del> | <del>-</del> | - |          | ${\mathbb H}$   |
|       | 141               | $\vdash$     |          |              | - | $\vdash$     |              |   |          | Н               |
|       | 142               | $\vdash$     |          | _            |   |              | Н            | Н |          | H               |
| -     | 143               | <del> </del> |          |              |   |              | Н            |   | $\vdash$ | $\vdash$        |
|       | 144               | $\vdash$     |          |              |   | Г            |              |   |          | П               |
|       | 145               | $\vdash$     |          |              | _ |              | Т            |   |          | П               |
|       | 146               | Т            |          |              |   |              |              |   |          | П               |
|       | 147               |              |          |              |   |              |              |   |          |                 |
|       | 148               |              |          |              |   |              |              |   |          |                 |
|       | 149               |              |          |              |   |              |              |   |          |                 |
|       | 150               |              |          |              |   |              |              |   |          |                 |
|       |                   |              |          |              |   |              |              |   |          |                 |